

## CLAIMS:

Having thus described the invention, what is claimed and desired to be secured by Letters Patent is:

1. In an assembly including a fluid coupling, a prime mover for driving said fluid coupling, a rotating comminuting machine, a power train between said fluid coupling and said rotating comminuting machine, and a conveyor for feeding material to said comminuting machine, said fluid coupling having an impeller and a runner, the improvement comprising means for measuring the slip speed between said impeller and said runner, and for regulating the speed of said conveyor in response to said slip speed.

2. The improvement of claim 1 wherein the slip speed differential is calculated as a percentage, whereby the regulation of the speed of said conveyor is according to the slip speed percentage, thereby being substantially independent of the running speed of the prime mover.

3. In an assembly including a fluid coupling, a prime mover for driving said fluid coupling, a rotating comminuting machine, a power train between said fluid coupling and said rotating comminuting machine, and a conveyor for feeding material to said comminuting machine, said fluid coupling having an impeller and a runner, said runner being fastened to an output shaft, the improvement comprising means mounted on said output shaft for functionally controlling the speed of said conveyor, whereby the speed of said conveyor is a function of the speed of said output shaft.

4 The improvement of claim 3 wherein the means for functionally controlling the speed of the conveyor comprises a multitoothed wheel and a mating speed pickup.

5. In an assembly including a fluid coupling, a prime mover for driving said fluid coupling, a rotating comminuting machine, a power train between said fluid coupling and said rotating comminuting machine, and a conveyor for feeding material to said comminuting machine, said fluid coupling having an impeller and a runner, said runner being fastened to an output shaft, said conveyor being driven at a substantially constant speed, the improvement comprising means mounted on said output shaft responsive to a change in speed of rotation of said output shaft, and means responsive to a predetermine amount of slow-down of said output shaft for reversing the direction of said conveyor for a predetermined length of time and restoring the original direction after said length of time.